NOTES ON QUEUES AND BREATH FIRST SEARCH
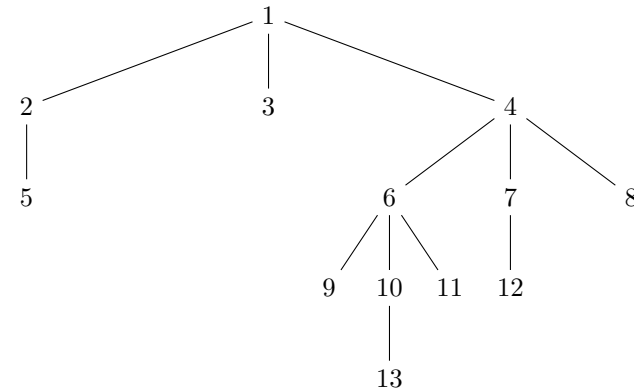
ERIC MARTIN

Dequeuing a path from the front of the queue (right of list) and enqueuing its extensions to the back of the queue.

$\big[[1]\big]$

$[]$ $[1]$
$\big[[1, 4], [1, 3], [1, 2]\big]$

$\big[[1, 4], [1, 3]\big]$ $[1, 2]$
$\big[[1, 2, 5], [1, 4], [1, 3]\big]$

$\big[[1, 2, 5], [1, 4]\big]$ $[1, 3]$

$\big[[1, 2, 5]\big]$ $[1, 4]$
$\big[[1, 4, 8], [1, 4, 7], [1, 4, 6], [1, 2, 5]\big]$

$\big[[1, 4, 8], [1, 4, 7], [1, 4, 6]\big]$ $[1, 2, 5]$

$\big[[1, 4, 8], [1, 4, 7]\big]$ $[1, 4, 6]$
$\big[[1, 4, 6, 11], [1, 4, 6, 10], [1, 4, 6, 9], [1, 4, 8], [1, 4, 7]\big]$

$\big[[1, 4, 6, 11], [1, 4, 6, 10], [1, 4, 6, 9], [1, 4, 8]\big]$ $[1, 4, 7]$
$\big[[1, 4, 7, 12], [1, 4, 6, 11], [1, 4, 6, 10], [1, 4, 6, 9], [1, 4, 8]\big]$

$\big[[1, 4, 7, 12], [1, 4, 6, 11], [1, 4, 6, 10], [1, 4, 6, 9]\big]$ $[1, 4, 8]$

$\big[[1, 4, 7, 12], [1, 4, 6, 11], [1, 4, 6, 10]\big]$ $[1, 4, 6, 9]$

$\big[[1, 4, 7, 12], [1, 4, 6, 11]\big]$ $[1, 4, 6, 10]$
$\big[[1, 4, 6, 10, 13], [1, 4, 7, 12], [1, 4, 6, 11]\big]$

$\big[[1, 4, 6, 10, 13], [1, 4, 7, 12]\big]$ $[1, 4, 6, 11]$

$\big[[1, 4, 6, 10, 13]\big]$ $[1, 4, 7, 12]$

$[]$ $[1, 4, 6, 10, 13]$